

Barb

2001

SEARCH REQUEST FORM

Access DB# _____

Scientific and Technical Information Center

Requester's Full Name: P. Spivak K Examiner #: 70400 Date: 11/14/03
 Art Unit: 1614 Phone Number 30 84703 Serial Number: 091995277
 Mail Box and Bldg/Room Location: 2D05 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention:

Fc Receptor Modulators

Inventors (please provide full names):

Jonathan B. Baell
Thomas P. J. Garrett

Earliest Priority Filing Date:

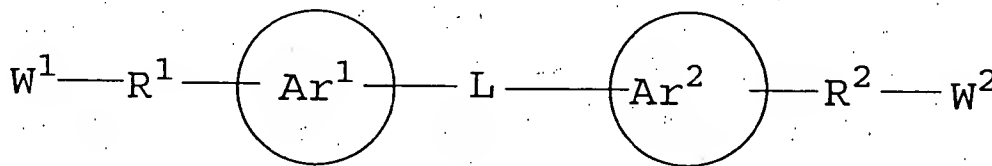
9/11/98

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search

a compound having the formula

Point of Contact:
Barb O'Bryen
Technical Information Specialist:
STIC CM1 6A05 308-429



or salts thereof,

wherein

W^1 and W^2 are independently CO_2R^3 , $\text{C}(\text{=NH})\text{NH}(\text{OH})$, $\text{PO}(\text{OR}^3)_2$ or $\text{C}(\text{=O})\text{CF}_3$,

and at least one of W^1 and W^2 is CO_2R^3 ;

each of R^1 and R^2 is a bond, CH_2 or $\text{C}_1\text{-C}_6$ alkylene;

each of Ar^1 and Ar^2 is independently a $\text{C}_5\text{-C}_{20}$ aryl; (not heteroaryl)

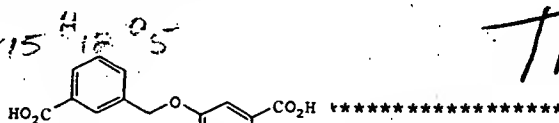
L is a linker selected from the group consisting of a methoxy, $\text{C}_2\text{-C}_{20}$ alkoxy, and

$\text{C}_6\text{-C}_{20}$ aryl; and,

R^3 is hydrogen or $\text{C}_1\text{-C}_6$ alkyl,

to inhibit Fc receptor binding of immunoglobulin

util = 3-[(m-carboxyphenyl)methoxy]benzoic acid:



Thanks

=> fil reg; d stat que 119; fil hcapl; d que nos 124

~~FILE REGISTRY~~ ENTERED AT 12:23:12 ON 15 JAN 2003

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STRUCTURE FILE UPDATES: 14 JAN 2003 HIGHEST RN 479024-64-1

DICTIONARY FILE UPDATES: 14 JAN 2003 HIGHEST RN 479024-64-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

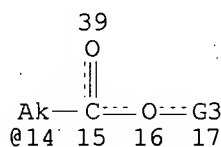
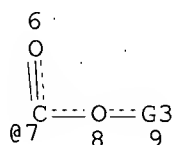
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

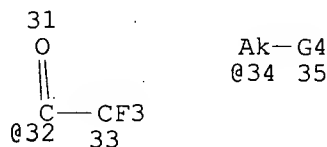
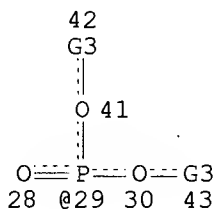
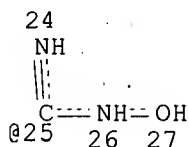
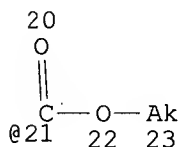
L3

STR

G5-Cb-G1-Cb-G2
1 2 3 4 5



O-Ak
@18 @19



Ak @40

Cb = carbocycle
Cy = any cyclic group

VAR G1=18-2 19-4/18-4 19-2/CY

VAR G2=21/COOH/25/29/32/34

VAR G3=H/40

VAR G4=21/COOH/25/29/32

VAR G5=7/14

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 14

CONNECT IS E2 RC AT 19

CONNECT IS E1 RC AT 23

CONNECT IS E2 RC AT 34

CONNECT IS E1 RC AT 40

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS X6 C AT 34

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE

L8 6831 SEA FILE=HCAPLUS ABB=ON FC#(L)RECEPTOR#/OBI
L9 SEL L8 1- RN : 17052 TERMS
L10 17024 SEA FILE=REGISTRY ABB=ON L9
L12 6455 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+OLD/CT
L13 7664 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+NT/CT
L14 8765 SEA FILE=HCAPLUS ABB=ON L12 OR L13
L15 SEL L14 1- RN : 29472 TERMS
L16 30102 SEA FILE=REGISTRY ABB=ON L15
L17 38354 SEA FILE=REGISTRY ABB=ON L10 OR L16
~~L19 1 SEA FILE=REGISTRY SUB=L17 SSS FUL L3~~

100.0% PROCESSED 6227 ITERATIONS
SEARCH TIME: 00.00.02

1 ANSWERSFILE "HCAPLUS" ENTERED AT 12:23:12 ON 15 JAN 2003

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FILE COVERS 1907 - 15 Jan 2003 VOL 138 ISS 3

FILE LAST UPDATED: 14 Jan 2003 (20030114/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

L3 STR
L8 6831 SEA FILE=HCAPLUS ABB=ON FC#(L)RECEPTOR#/OBI
L9 SEL L8 1- RN : 17052 TERMS
L10 17024 SEA FILE=REGISTRY ABB=ON L9
L12 6455 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+OLD/CT
L13 7664 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+NT/CT
L14 8765 SEA FILE=HCAPLUS ABB=ON L12 OR L13
L15 SEL L14 1- RN : 29472 TERMS
L16 30102 SEA FILE=REGISTRY ABB=ON L15
L17 38354 SEA FILE=REGISTRY ABB=ON L10 OR L16
L19 1 SEA FILE=REGISTRY SUB=L17 SSS FUL L3
L23 313 SEA FILE=HCAPLUS ABB=ON L19
~~L24 1 SEA FILE=HCAPLUS ABB=ON (L8 OR L12 OR L13) AND L23~~

=> ~~d ibib abs hitstr l24;~~ fil uspatf; d que nos 128; fil cao; d que nos 122

L24 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:264540 HCAPLUS

DOCUMENT NUMBER: 133:219144
TITLE: Recognition of porphyrin or protein using peptides derived from antibody CDR
AUTHOR(S): Takahashi, Mizuki; Ueno, Akihiko; Mihara, Hisakazu
CORPORATE SOURCE: Department of Bioengineering, Tokyo Institute of Technology, Faculty of Bioscience and Biotechnology, Yokohama, 226-8501, Japan
SOURCE: Peptide Science (1999), 36th, 395-396
CODEN: PSCIFQ; ISSN: 1344-7661
PUBLISHER: Japanese Peptide Society
DOCUMENT TYPE: Journal
LANGUAGE: English

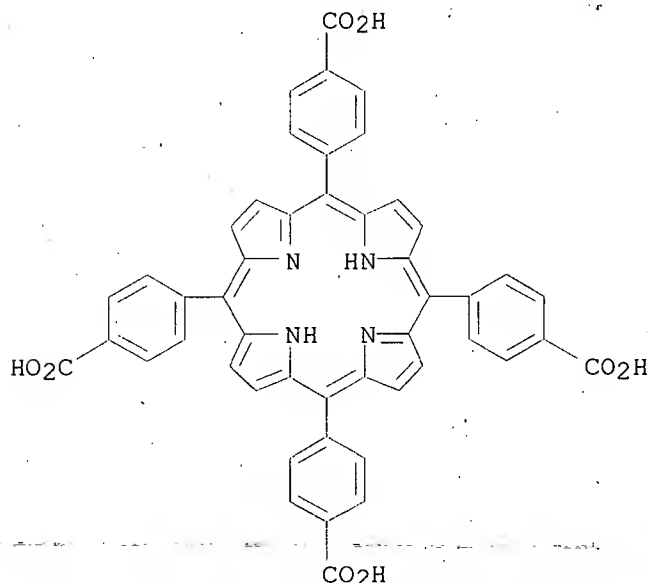
AB We have utilized sequential information from antibody CDR to develop peptides with a targeted affinity. The porphyrin or IgE-binding peptides were designed and synthesized based on an anti-heme or an anti-IgE monoclonal antibody. Their binding affinities were examd. by the spectroscopic measurements and binding properties according to the peptide sequence and/or conformation were revealed.

IT 14609-54-2, TCPP

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(recognition of porphyrin or protein using peptides derived from antibody CDR)

RN 14609-54-2 HCAPLUS

CN Benzoic acid, 4,4',4'',4'''-(21H,23H-porphine-5,10,15,20-tetrayl)tetrakis- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

FILE: USPATEULL ENTERED AT 12:23:28 ON 15 JAN 2003
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 14 Jan 2003 (20030114/PD)
FILE LAST UPDATED: 14 Jan 2003 (20030114/ED)
HIGHEST GRANTED PATENT NUMBER: US6507953
HIGHEST APPLICATION PUBLICATION NUMBER: US2003009812

CA INDEXING IS CURRENT THROUGH 14 Jan 2003 (20030114/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 14 Jan 2003 (20030114/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2002
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2002

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<

>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
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L3 STR
L8 6831 SEA FILE=HCAPLUS ABB=ON FC#(L)RECEPTOR#/OBI
L9 SEL L8 1- RN : 17052 TERMS
L10 17024 SEA FILE=REGISTRY ABB=ON L9
L12 6455 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+OLD/CT
L13 7664 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+NT/CT
L14 8765 SEA FILE=HCAPLUS ABB=ON L12 OR L13
L15 SEL L14 1- RN : 29472 TERMS
L16 30102 SEA FILE=REGISTRY ABB=ON L15
L17 38354 SEA FILE=REGISTRY ABB=ON L10 OR L16
L19 1 SEA FILE=REGISTRY SUB=L17 SSS FUL L3
L21 37 SEA FILE=USPATFULL ABB=ON L19
L25 26275 SEA FILE=USPATFULL ABB=ON RECEPTOR#/IT, TI, AB, CLM
L26 4484 SEA FILE=USPATFULL ABB=ON FC#/IT, TI, AB, CLM
L27 9347 SEA FILE=USPATFULL ABB=ON (IMMUNOGLOBULIN# OR IG#)/IT, TI, AB, CL
M

~~CL28 0 SEA FILE=USPATFULL ABB=ON L21 AND (L25 OR L26 OR L27)~~

FILE 'CAOLD' ENTERED AT 12:23:28 ON 15 JAN 2003

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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assignees, and patent information, e.g., patent numbers, are
now searchable from 1907-1966. TIFF images of CA abstracts
printed between 1907-1966 are available in the PAGE
display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

L3 STR
L8 6831 SEA FILE=HCAPLUS ABB=ON FC#(L)RECEPTOR#/OBI
L9 SEL L8 1- RN : 17052 TERMS
L10 17024 SEA FILE=REGISTRY ABB=ON L9
L12 6455 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+OLD/CT
L13 7664 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+NT/CT
L14 8765 SEA FILE=HCAPLUS ABB=ON L12 OR L13
L15 SEL L14 1- RN : 29472 TERMS
L16 30102 SEA FILE=REGISTRY ABB=ON L15
L17 38354 SEA FILE=REGISTRY ABB=ON L10 OR L16
L19 1 SEA FILE=REGISTRY SUB=L17 SSS FUL L3
~~L22 0 SEA FILE=CAOLD ABB=ON L19~~

=> fil reg; d stat que 141; fil capl; d que nos 142; fil uspatf; d que nos 143
~~FILE CAPLUS~~ ENTERED AT 12:23:59 ON 15 JAN 2003
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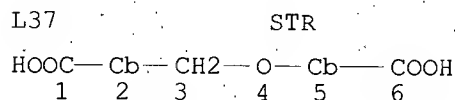
STRUCTURE FILE UPDATES: 14 JAN 2003 HIGHEST RN 479024-64-1
DICTIONARY FILE UPDATES: 14 JAN 2003 HIGHEST RN 479024-64-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>



species (slightly broader)

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 2
CONNECT IS E2 RC AT 5
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY LOC UNS AT 2
GGCAT IS MCY LOC UNS AT 5
DEFAULT ECLEVEL IS LIMITED

Carbocycles at nodes 2 & 5 are monocyclic, unsaturated, with ≤ 6 carbons & are each connected to exactly 2 other things

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L39 SCR 1297

~~FILE CAPLUS~~ 2 SEA FILE REGISTRY SSS FULL L37 AND L39

100.0% PROCESSED 217409 ITERATIONS
SEARCH TIME: 00.00.19

~~2 ANSWERS~~

~~FILE CAPLUS~~ ENTERED AT 12:23:59 ON 15 JAN 2003

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FILE COVERS 1907 - 15 Jan 2003 VOL 138 ISS 3
FILE LAST UPDATED: 14 Jan 2003 (20030114/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

L37 STR
L39 SCR 1297
L41 2 SEA FILE=REGISTRY SSS FUL L37 AND L39
~~L42 1 SEA FILE=CAPLUS ABB=ON L41~~

FILE 'USPATFULL' ENTERED AT 12:23:59 ON 15 JAN 2003
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 14 Jan 2003 (20030114/PD)
FILE LAST UPDATED: 14 Jan 2003 (20030114/ED)
HIGHEST GRANTED PATENT NUMBER: US6507953
HIGHEST APPLICATION PUBLICATION NUMBER: US2003009812
CA INDEXING IS CURRENT THROUGH 14 Jan 2003 (20030114/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 14 Jan 2003 (20030114/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2002
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2002

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

L37 STR
L39 SCR 1297
L41 2 SEA FILE=REGISTRY SSS FUL L37 AND L39
~~L43 1 SEA FILE=USPATFULL ABB=ON L41~~

~~=> dup rem 142, 143~~

FILE 'CAPLUS' ENTERED AT 12:24:04 ON 15 JAN 2003
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FILE 'USPATFULL' ENTERED AT 12:24:04 ON 15 JAN 2003
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 PROCESSING COMPLETED FOR L42
 PROCESSING COMPLETED FOR L43

~~L45 2 DUP REM L42 L43 (0 DUPLICATES REMOVED)~~

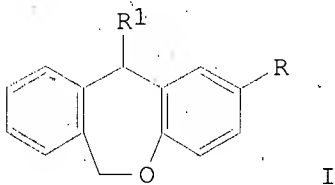
ANSWER '1' FROM FILE CAPLUS

ANSWER '2' FROM FILE USPATFULL

~~=> d ibib abs hitstr 1-2; fil cao; d que nos 144; fil hom~~

L45 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1985:203881 CAPLUS
 DOCUMENT NUMBER: 102:203881
 TITLE: Dibenz[b,e]oxepin derivatives
 INVENTOR(S): Takizawa, Hiroshi; Oiji, Yoshimasa; Ohmori, Kenji;
 Shuto, Katsuichi
 PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 39 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 130555	A2	19850109	EP 1984-107410	19840628
EP 130555	A3	19870902		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 60028972	A2	19850214	JP 1983-118009	19830629
JP 02025911	B4	19900606		
US-4596804	A	19860624	US 1984-625000	19840626
CA 1225090	A1	19870804	CA 1984-457545	19840627
PRIORITY APPLN. INFO.:			JP 1983-118009	19830629
OTHER SOURCE(S):	CASREACT 102:203881			
GI				



AB Dibenzoxepins I [R = cyano, 5-tetrazolyl, CONH2, CO2H, alkoxycarbonyl, CO2CHMeOCO2Et; R1 = 4-alkylpiperazino, 3-quinuclidinylamino, X(CH2)nNR2R3; R2, R3 = alkyl; X = NH, O, S; n = 2, 3] were prepd. Thus, 4-HOC6H4CO2Et was treated with NaH and 2-(BrCH2)C6H4CO2Et to give 4-EtO2CC6H4OCH2C6H4CO2Et-2 which was sapond. by NaOH in aq. MeOH to give 83.3% dicarboxylic acid. This diacid was cyclized in sulfolane with polyphosphoric acid to give 62.9% 6,11-dihydro-11-oxodibenz[b,e]oxepin-2-carboxylic acid which was quant. converted to the Et ester via the acid chloride. The Et ester was reduced with NaBH4 to give 94.7% I (R = CO2Et,

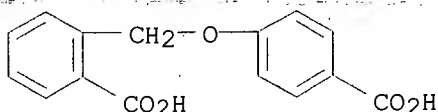
R1 = OH), which was chlorinated with SOCl₂ to give 100% I (R = CO₂Et, R1 = Cl). The latter compd. was treated with HOCH₂CH₂NMe₂ to give 53.1% I (R = CO₂Et, R1 = OCH₂CH₂NMe₂), which had antiallergy activity in the 48-h homologous passive cutaneous anaphylaxis test in rats with a min. ED of 1 mg/kg orally.

IT 96335-22-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and cyclization of)

RN 96335-22-7 CAPLUS

CN Benzoic acid, 2-[(4-carboxyphenoxy)methyl]- (9CI) (CA INDEX NAME)



L45 ANSWER 2 OF 2 USPATFULL

ACCESSION NUMBER: 86:36903 USPATFULL

TITLE: Dibenz[b,e]oxepin compounds

INVENTOR(S): Takizawa, Hiroshi, Tokyo, Japan
Oiji, Yoshimasa, Shizuoka, Japan
Ohmori, Kenji, Mishima, Japan
Shuto, Katsuichi, Shizuoka, Japan

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4596804		19860624
APPLICATION INFO.:	US 1984-625000		19840626 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1983-118009	19830629
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Hollrah, Glennon H.	
ASSISTANT EXAMINER:	Turnipseed, James H.	
LEGAL REPRESENTATIVE:	Antonelli, Terry & Wands	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1,11	
LINE COUNT:	784	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

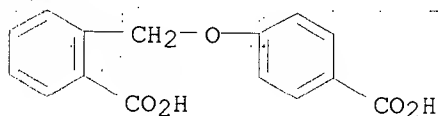
AB. A dibenz[b,e]oxepin compound having an antiallergic activity is represented by the following general formula: ##STR1## wherein R.sub.1 represents a cyano group, a 5-tetrazolyl group, a carbamoyl group or --CO.sub.2 R.sub.3 wherein R.sub.3 represents a hydrogen atom, an alkyl group having 1 to 5 carbon atoms or a 1-(ethoxycarbonyloxy)ethyl group, and R.sub.2 represents a 4-alkylpiperazino group wherein the alkyl group has 1 to 5 carbon atoms, a 3-quinuclidinylamino group or --X--(CH.sub.2).sub.n --NR.sub.4 R.sub.5 wherein X represents --NH-- , --S -- or --O--, R.sub.4 and R.sub.5 are same or different and each represents an alkyl group having 1 to 5 carbon atoms and n represents 2 or 3; and the pharmaceutically acceptable acid addition salts or metal salts thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 96335-22-7P

(prepn. and cyclization of)

RN 96335-22-7 USPATFULL
CN Benzoic acid, 2-[(4-carboxyphenoxy)methyl]- (9CI) (CA INDEX NAME)



FILE 'CAOLD' ENTERED AT 12:24:19 ON 15 JAN 2003
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FILE COVERS 1907-1966

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